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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/656,677	09/07/2000	Michael Douglas	65229-0010	1937
7590 06/17/2004			EXAMINER	
Cary W. Brooks			GANDHI, JAYPRAKASH N	
General Motor	s CorporationLegal			
Mail Code 482-C23-B21			ART UNIT	PAPER NUMBER
PO Box 300		2125		
Detroit, MI 4	18265-3000		DATE MAILED: 06/17/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/656,677	DOUGLAS ET AL.			
		Examiner	Art Unit			
		Jayprakash N Gandhi	2125			
The MAILING DATE of this co Period for Reply	mmunication appo	ears on the cover sheet with t	he correspondence address			
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS COM  - Extensions of time may be available under the p after SIX (6) MONTHS from the mailing date of t  - If the period for reply specified above is less that - If NO period for reply is specified above, the may  - Failure to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.7	MUNICATION. rovisions of 37 CFR 1.13 nis communication. t thirty (30) days, a reply imum statutory period wi for reply will, by statute, months after the mailing	6(a). In no event, however, may a reply within the statutory minimum of thirty (30 ill apply and will expire SIX (6) MONTHS cause the application to become ABAND	be timely filed  ) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).			
Status						
1) Responsive to communication	1) Responsive to communication(s) filed on <u>07 September 2000</u> .					
2a) This action is <b>FINAL</b> .	2b)⊠ This	action is non-final.				
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)  Claim(s) <u>1-42</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) <u>1-42</u> is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to	by the Examiner	;				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
	e of: riority documents riority documents opies of the priori ernational Bureau	have been received. have been received in Applity documents have been received (PCT Rule 17.2(a)).	ication No reived in this National Stage			
		BEST AVA	ALABLE COPY			
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
Notice of Draftsperson's Patent Drawing Re     Information Disclosure Statement(s) (PTO-Paper No(s)/Mail Date		Paper No(s)/Ma	nal Patent Application (PTO-152)			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-42 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Martin et al. (U. S. Patent 6,253,115).

Regarding claims 1-20 and 28-35, Martin discloses all the claimed invention of a method for designing and building a manufacturing system, columns 1 and 2, lines 55-67 and 1-7 respectively,

FIG. 1 is a flowchart of a <u>design</u> for six sigma (DFSS) process that may be implemented using the present invention. The overall DFSS process of FIG. 1 is divided into four sub-processes labeled Identify, <u>Design Optimize and Validate</u>. Each sub-process includes sub-steps. The Identify sub-process includes sub-steps 102 and 104. The <u>Design</u> sub-process includes sub-steps 106-112. The <u>Optimize</u> sub-process includes sub-steps 114-126. The <u>Validate</u> sub-process includes sub-steps 128-134. The DFSS process shown in FIG. 1 is useful for improving the process of designing a product or procedure. The invention can also be applied to other six sigma processes such as the Measure, Analyze, Improve and Control (MAIC) process used for improving processes (such as <u>manufacturing</u> processes or business processes). The invention is a system for implementing a <u>design</u> for six sigma process and may be used with other six sigma processes or similar processes.

It is to be noted that Martin positively discloses of having reviewing (IDENTIFY, MEASURE), conducting (DESIGN, ANALYZE), validating (CONTROL) as well as Optimizing for improvement before validating. The presence of the claimed invention of designing and building a manufacturing system is old and well known as discloses

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by Martin and would have been obvious to one of ordinary skill in the art to modify as required to improve quality, safety and efficiency and the same tine reduce cost, and downtime.

Regarding claims 21-27 and 36-42, Martin discloses use of executable tools (ABSTRACT), which can be used for computer readable storage device to expedite the process and reduce human errors.

## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wayne et al., Hair et al., Ali et al., Hocaoglu et al., and Cawse disclose related art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jayprakash N Gandhi whose telephone number is 703-305-7513. The examiner can normally be reached on 6:30-5:00 (Mon. - Thu.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P Picard can be reached on 703-308-0538. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jayprakash N Gandhi Primary Examiner Art Unit 2125

**JNG**